

DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

Atty. Docket No. 1554 (USW 0464 PLUS)
 First Named Inventor Bruce A. Phillips

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SYSTEM AND METHOD FOR INCREASING
DISTRIBUTION DISTANCE OF XDSL TYPE SIGNALS**

the specification of which:

is attached hereto; or

was filed on December 1, 1998 as U.S. Application Number or PCT International Application Number 09/203,086, and was amended on (MM/DD/YYYY) _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below, and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Priority Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? (Yes/No)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)

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Application Number(s)	Filing Date (MM/DD/YYYY)	Status: Patented, Pending, Abandoned

Declaration for Patent Application (cont'd.)Atty. Docket No. 1554 (USW 0464 PL5)

I hereby appoint the practitioners associated with Customer Number 22193 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number. Telephone calls should be directed to U S WEST, Inc., Law Department--Intellectual Property Group, at (877) 879-4747 or (303) 672-2700.

**22193**

THIS IS A PATENT DRAWING

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or First Inventor BRUCE A. PHILLIPS

Inventor's signature _____ Date _____

Post Office Address 9165 S. Mountain Brush Court, Highlands Ranch, Colorado 80126Residence (same as above) Citizenship United States of America**Full Name of Second Joint Inventor** DARWEI KUNG

Inventor's signature _____ Date _____

Post Office Address 15149 E. Princeton Pl., #F, Aurora, Colorado 80014Residence (same as above) Citizenship United States of America**Full Name of Third Joint Inventor** TODD A. PETT

Inventor's signature _____ Date _____

Post Office Address 2318 22nd Avenue, Longmont, Colorado 80503Residence (same as above) Citizenship United States of America**Full Name of Fourth Joint Inventor** DAVID J. ARENS

Inventor's signature _____ Date _____

Post Office Address 9225 S. Mountain Brush Court, Highlands Ranch, Colorado 80126Residence (same as above) Citizenship United States of America

Declaration for Patent Application (cont'd) Any. Docket No. 1554 (USW 0464 PLUS)**Full Name of Fifth Joint Inventor PAULA C. POBERZYN**

Inventor's signature _____ Date _____

Post Office Address 1425 East Hermosa Drive, Highlands Ranch, Colorado 80126Residence (same as above) Citizenship United States of America**Full Name of Sixth Joint Inventor RICHARD H. FINK**

Inventor's signature _____ Date _____

Post Office Address 4129 S. Ireland Court, Aurora, Colorado 80013Residence (same as above) Citizenship United States of America**Full Name of Seventh Joint Inventor DONALD L. BRODIGAN**

Inventor's signature _____ Date _____

Post Office Address 6281 W. 110th Avenue, Broomfield, Colorado 80020Residence (same as above) Citizenship United States of America**Full Name of Ninth Joint Inventor JAMES W. NEVELLE**

Inventor's signature _____ Date _____

Post Office Address 9688 S. Biltmore Way, Highlands Ranch, Colorado 80126Residence (same as above) Citizenship United States of America**Full Name of Eighth Joint Inventor KURT A. CAMPBELL**Inventor's signature Kurt A. Campbell Date 7/26/99Post Office Address 101 Sandler Drive, Lafayette, Colorado 80026Residence (same as above) Citizenship United States of America

DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEYAtty. Docket No. 1554 (USW 0464 PUS)First Named Inventor Bruce A. Phillips

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Application Number(s)	Filing Date (MM/DD/YYYY)	Status: Patented, Pending, Abandoned

Declaration for Patent Application (cont'd.)

Atty. Docket No. 1554 (USW 0464 PUS)

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22193
U.S. PATENT & TRADEMARK OFFICE

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Full Name of Sole or First Inventor BRUCE A. PHILLIPS

Inventor's signature Bruce A. Phillips Date 08-25-99

Post Office Address 9165 S. Mountain Brush Court, Highlands Ranch, Colorado 80126

Residence (same as above) Citizenship United States of America

Full Name of Second Joint Inventor DARWEI KUNG

Inventor's signature DK Date 10/5/99

Post Office Address 15149 E. Princeton Pl., #F, Aurora, Colorado 80014

Residence (same as above) Citizenship United States of America

Full Name of Third Joint Inventor TODD A. PETT

Inventor's signature Todd A. Pett Date 10/8/99

Post Office Address 2318 22ND Avenue, Longmont, Colorado 80503

Residence (same as above) Citizenship United States of America

Full Name of Fourth Joint Inventor DAVID J. ARENS

Inventor's signature David J. Arens Date 10-4-99

Post Office Address 9225 S. Mountain Brush Court, Highlands Ranch, Colorado 80126

Residence (same as above) Citizenship United States of America

Declaration for Patent Application (cont'd) Atty. Docker No. 1554 (USW 0464 PUS)

Full Name of Fifth Joint Inventor PAULA C. POBERZYN

Inventor's signature Paula C. Poberzyn Date 10-4-99

Post Office Address 1425 East Hermosa Drive, Highlands Ranch, Colorado 80126

Residence (same as above) Citizenship United States of America

Full Name of Sixth Joint Inventor RICHARD H. FINK

(See separately executed

Inventor's signature Declaration attached hereto) Date

Post Office Address 4129 S. Ireland Court, Aurora, Colorado 80013

Residence (same as above) Citizenship United States of America

Full Name of Seventh Joint Inventor DONALD L. BRODIGAN

Inventor's signature Donald L. Brodigan Date 08-25-99

Post Office Address 6281 W. 110th Avenue, Broomfield, Colorado 80020

Residence (same as above) Citizenship United States of America

Full Name of Ninth Joint Inventor JAMES W. NEVELLE

(See separately executed

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Post Office Address 9688 S. Biltmore Way, Highlands Ranch, Colorado 80126

Residence (same as above) Citizenship United States of America

Full Name of Eighth Joint Inventor KURT A. CAMPBELL

Inventor's signature Kurt A. Campbell Date 10-01-99

Post Office Address 101 Sandler Drive, Lafayette, Colorado 80026

Residence (same as above) Citizenship United States of America

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Declaration for Patent Application (cont'd.)Atty. Docket No. 1554 (USW 0464 PLU)

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Full Name of Sole or First Inventor BRUCE A. PHILLIPSInventor's signature (See separately executed Declaration attached hereto) Date _____Post Office Address 9165 S. Mountain Brush Court, Highlands Ranch, Colorado 80126Residence (same as above) Citizenship United States of America***Full Name of Second Joint Inventor*** DARWEI KUNGInventor's signature (See separately executed Declaration attached hereto) Date _____Post Office Address 15149 E. Princeton Pl., #F, Aurora, Colorado 80014Residence (same as above) Citizenship United States of America***Full Name of Third Joint Inventor*** TODD A. PETTInventor's signature (See separately executed Declaration attached hereto) Date _____Post Office Address 2318 22ND Avenue, Longmont, Colorado 80503Residence (same as above) Citizenship United States of America***Full Name of Fourth Joint Inventor*** DAVID J. ARENSInventor's signature (See separately executed Declaration attached hereto) Date _____Post Office Address 9225 S. Mountain Brush Court, Highlands Ranch, Colorado 80126Residence (same as above) Citizenship United States of America

Declaration for Patent Application (cont'd) Am. Docket No. 1554 (USW 0464 PLIS)**Full Name of Fifth Joint Inventor** PAULA C. POBERZYNInventor's signature (See separately executed Declaration attached hereto) Date _____Post Office Address 1425 East Hemosa Drive, Highlands Ranch, Colorado 80126Residence (same as above) Citizenship United States of America**Full Name of Sixth Joint Inventor** RICHARD H. FINKInventor's signature Richard H. Fink Date 10/27/79Post Office Address 4129 S. Ireland Court, Aurora, Colorado 80013Residence (same as above) Citizenship United States of America**Full Name of Seventh Joint Inventor** DONALD L. BRODIGANInventor's signature (See separately executed Declaration attached hereto) Date _____Post Office Address 6281 W. 110th Avenue, Broomfield, Colorado 80020Residence (same as above) Citizenship United States of America**Full Name of Ninth Joint Inventor** JAMES W. NEVELLEInventor's signature (See separately executed Declaration attached hereto) Date _____Post Office Address 9688 S. Biltmore Way, Highlands Ranch, Colorado 80126Residence (same as above) Citizenship United States of America**Full Name of Eighth Joint Inventor** KURT A. CAMPBELLInventor's signature (See separately executed Declaration attached hereto) Date _____Post Office Address 101 Sandler Drive, Lafayenne, Colorado 80026Residence (same as above) Citizenship United States of America

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Declaration for Patent Application (cont'd.)Atty. Docket No. 1534 (USW 0464 PLUS)

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Inventor's signature _____ Date _____

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Declaration for Patent Application (cont'd) Atty. Docket No. 1554 (USW 0464 PUS)

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Inventor's signature _____ Date _____

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Full Name of Ninth Joint Inventor JAMES W. NEVELLE

Inventor's signature James W. Nevelle Date 7/26/97

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Inventor's signature _____ Date _____

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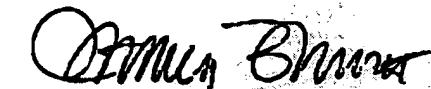
Residence (same as above) Citizenship United States of America

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**In re application of:****BRUCE A. PHILLIPS ET AL****Serial No.: 09/203,086****Filed: December 1, 1998****For: SYSTEM AND METHOD FOR INCREASING
DISTRIBUTION DISTANCE OF XDSL TYPE SIGNALS****Attorney Docket No.: 1554 (USW 0464 PUS)****STATEMENT UNDER 37 C.F.R. § 3.73(b) AND
CONSENT OF ASSIGNEE TO CORRECTION OF
INVENTORSHIP UNDER 37 C.F.R. § 1.48(a)(4)****Assistant Commissioner for Patents
Washington, D.C. 20231****Sir:**

US WEST, INC., a corporation organized and existing under the laws of the State of Delaware and having a place of business at 1801 California Street, Suite 5100, Denver, Colorado 80202, is the assignee of the entire right, title and interest in the above-identified application, U.S. Patent Application Serial No. 09/203,086, by virtue of an assignment from the originally named inventors thereof recorded in the U.S. Patent and Trademark Office on December 1, 1998, at Reel 9622, Frames 0220, and an assignment from the inventors to be added being submitted simultaneously herewith.

Assignee hereby consents to the correction of inventorship.

The undersigned (whose title is supplied below) is empowered to act on behalf of Assignee.

U S WEST, INC.**Signature****Printed Name: Stephen F. Jewett****Title: Assistant Secretary for U S WEST, Inc.****Date: July 30, 1999**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BRUCE A. PHILLIPS ET AL

Serial No.: 09/203,086

Filed: December 1, 1998

For: **SYSTEM AND METHOD FOR INCREASING
DISTRIBUTION DISTANCE OF XDSL TYPE SIGNALS**

Attorney Docket No.: 1554/1556 (USW 0464 PUS)

**STATEMENT BY INVENTOR FOR CORRECTION OF
INVENTORSHIP UNDER 37 C.F.R. § 1.48(a)(1)**Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The undersigned hereby states that he was erroneously omitted as an originally named inventor in the above-identified patent application, and that such error occurred without any deceptive intent on his part.

Respectfully Submitted,

Date: 7/26/99

Signature

Printed Name: Kurt A. Campbell